

CLASS X- BIOLOGY
LIFE PROCESS- RESPIRATION
ASSIGNMENT-7

MULTIPLE CHOICE QUESTIONS 7.1

1. The process of respiration is concerned with
(A) liberation of oxygen (B) liberation of carbon dioxide
(C) liberation of energy (D) intake of oxygen
2. The common immediate source of energy for cellular activity is
(A) NAD (B) ATP (C) DNA (D) RNA
3. The tissue respiration refers to
(A) inspiration (B) external respiration (C) internal respiration (D) expiration
4. If the CO₂ concentration in the blood increases, the rate of breathing will
(A) decrease (B) stop (C) increase (D) have no effect
5. Vocal cords occur in
(A) pharynx (B) glottis (C) bronchial tube (D) larynx
6. In man, which of the following structures is analogous to the spiracles of cockroach ?
(A) Alveoli (B) Lungs (C) Bronchioles (D) Nostrils
7. Which of the following prevents collapsing of trachea ?
(A) Diaphragm (B) Ribs (C) Cartilaginous ring (D) Muscles
8. Which of the following gases makes the most stable combination with the hemoglobin of red blood cells.
(A) CO₂ (B) CO (C) O₂ (D) N₂
9. Volume of air inspired or expired with each normal breath is called
(A) tidal volume (B) inspiratory capacity
(C) total lung capacity (D) residual volume
10. Most of the carbon dioxide in the blood is carried in the form of
(A) carbonic acid (B) bicarbonates
(C) carbaminohemoglobin (D) dissolved CO₂

SUBJECTIVE QUESTIONS

SHORT ANSWER TYPE QUESTIONS

1. Define respiration. Name the different types of respiration.
2. Write three common features of respiratory organs.
3. What are the characteristics of respiratory structure present in animals ?
4. What is the function of epiglottis in man and where it is situated ?
5. How does exchange of gases takes place in the following :
(i) Roots (ii) Stem (iii) Leaves
6. Draw a labelled diagram of human respiratory system.

LONG ANSWER TYPE QUESTIONS

1. What do you mean by inhalation and exhalation ? Explain the mechanism of both in brief ?
2. List out the differences between breathing and respiration.
3. Describe the mechanism of breathing in human beings.
4. Explain the process of respiration in different parts of plant. What are the various structures involved in respiration in plants ?
5. Draw the respiratory system of human beings. What happens to the rate of breathing during vigorous exercise and why ?
6. List three differences between respiration in plants and respiration in animals. Describe with a well labelled diagram how gaseous exchange occurs through root hair in plants **[C.B.S.E., Delhi - 2018]**
7. How is respiration differs from breathing ? Explain the process of aerobic respiration and anaerobic respiration. **[C.B.S.E - 2019]**
8. Draw a diagram showing human respiratory system. Label its following parts :
(i) Larynx (ii) Trachea (iii) Primary bronchus (iv) Lungs
9. Name the respiratory organs in the following :
(i) A fish (ii) A bird (iii) An earthworm
10. Draw a diagram showing how blood in the capillaries surrounding tissues exchange respiratory gases with cells of the tissues.